



citEcar Street Legal Golf Cart Owner's Manual



Sold and Distributed by

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Introduction

citEcarEV, LLC is pleased to offer its line of low speed vehicles. These vehicles are perfect for driving around campgrounds, universities, neighborhoods, airports, and more! The street legal golf carts are offered in two, four, and six passenger models.

Why would I want an LSV?

It's logical! Sixty five percent of U.S. families own a second car, yet over 50 percent of urban trips last less than ten minutes perfect for LSVs. Eighty percent of all trips are within 10 miles or less in a traditional automobile resulting in cold running motors that translate into excessive engine wear and more pollutants. LSVs are the right "tool" for most of our transportation jobs.

Commercial Vehicles

citEcarEV LLC also offers several commercial vehicles for sale. Some include:

- Delivery Buddy** - A two passenger vehicle, with an extra large insulated cargo box on the back of the unit. It is perfect for local mechanics and food delivery companies.
- Utility Buddy** - A two passenger vehicle with a rear truck bed.
- Security Buddy** - A four passenger vehicle with lights and a siren. Perfect for malls, hotels, colleges, airports, and more!
- Transport Buddy** - The transport buddies come in three different sizes: 9 Passenger, 12 Passenger, and 15 Passenger.



Operating System

Ignition Key Switch - Insert the key and turn it clockwise to power on the lights, horn, and control system.

Accelerator Pedal - This controls the driving speed. Step on slowly to accelerate, push all the way to the floor for full power. Release the pedal partially to reduce speed. Releasing the pedal completely will cut power to the engine and the vehicle will come to a stop.

Brake Pedal - Causes the vehicle to decelerate and stop.

Parking Brake - Apply when parked.

Light Switch / Turn Signal – Turn on for headlights, push lever UP for RIGHT turn signal, and DOWN for LEFT turn signal.

Windshield Wiper - Push switch to turn windshield wipers ON, back DOWN for OFF.

Voltage Meter - This meter indicates the current power supply of battery. This can be found on the digital dashboard.

Start Up Procedure

- 1) Turn the key clockwise to the ON position
- 2) Switch the vehicle into forward or reverse.
- 3) Release the parking brake.
- 4) Step on the accelerator pedal to begin moving.

Important Note: Your low speed vehicle will not run if you press the accelerator pedal before turning the key to the ON position.

Important Rules to Remember

Before operating your low speed vehicle, you should familiarize yourself with your local laws. It is always important to remember the following rules:

- 1) Check with your local DMV for any laws that relate to using a low speed vehicle in your city.
- 2) Do not ever load more weight onto your vehicle than it is rated for. Doing so can damage the motor and shorten the life of the batteries. Overloading can also cause the vehicle to become unstable, resulting in a loss of control.
- 3) Only let drivers that are qualified and have a drivers license operate this vehicle.
- 4) Be aware of faster vehicles on the road. Do not attempt to pass any vehicles.
- 5) This vehicle is not meant for large hills. Do not try to force it up a hill if it does not have the power to drive up itself.
- 6) Make sure you slow down the vehicle when going down a hill or making a turn. Do not attempt to do either maneuver at full speed.
- 7) All passengers should be seated when the vehicle is in motion. Ensure that all passengers are using their seatbelts before the vehicle is driven.

Disclaimer

The end user is responsible to know and follow local laws pertaining to using your Bubble Buddy on public roadways. Please adhere to any and all Department of Motor Vehicles as well as required insurance requirements in your area. CitEcarEV, LLC does not claim to know every requirement posted by every State and makes no guarantees that every state has passed laws pertaining to their use on public roadways. The best source for this information is your local state agency or your local dealer of our Bubble Buddies from whom you purchased the product.

Battery Information

The battery bolts, wiring, and surface should always be kept dry and clean. To clean your battery, use a damp cloth.

Always avoid letting water run over the batteries and onto the electrical wiring.

Check the battery connections regularly for damaged poles or loose connections.

Never store anything on top of the batteries. Also do not ever rewire or disconnect the batteries.

We recommend that you charge the batteries after each use. Keeping the batteries at a full charge as much as possible will extend their lives.

Regularly check the water levels of the batteries. Add distilled water when needed. The water level should be at the max line when charged. After adding distilled water, charge for 1 hour.

Do not let dirt or other impurities into the battery water.

When possible, do not allow the batteries to become completely discharged. This will shorten the life of the batteries.

If the vehicle has not been used for a long time, first check the water level, and then recharge the batteries.

Park the vehicle in a well ventilated or open area when charging.

When the batteries will no longer hold a charge for an extended time, it is time to replace them. A replacement battery should be of the same type and voltage. It is always recommended that you have a service center perform the battery change.

Charger

The battery charger can be plugged into a standard 110v wall outlet. You will want to use a circuit that has a 20amp breaker for EACH plug. To recharge your low speed vehicle, please follow the following steps:

- 1) Turn the key to the OFF position
- 2) Plug the charger into the wall, and then into the vehicle
- 3) Turn the charger to the ON position

When the indicator light shows FULL, the charger will shut itself off. Please leave the vehicle plugged in when not in use.

WARNING: Do not ever attempt to disassemble the charger. Do not ever let it get wet.

Motor

Always operate this vehicle in temperatures between °F and 104°F.

Keep combustible materials away from the batteries and the motor.

On a regular basis, it is suggested that the owner brushes away dirt and dust from the motor housing. This will allow the motor to stay properly ventilated.

Troubleshooting Guide

Problem	Probable Cause
Blades of commutator turn black, in order or in groups	Short circuit of the blades in between or of the armature coil, poor welding or cutoff between the blades and armature coil.
Blades turn black; in no order.	The central line of the commutator deviates, and the surface is not smooth
Brush wears out and turns a color or breaks	Too much motor vibration, too much clearance between the brush and cover or the brush cover and commutator, or the wrong type of brush was used
Sparks are present	The motor is overloaded. Commutator is dirty, part of the blades have come out, poor or the wrong type of brush, brush sticks, brush holder is loose, wrong polarity of magnetic pole.
Brush and its wires get hot	Poor contact between brush and wires
Brush is noisy	Surface of commutator is not smooth

Speed Controller

The controllers used in our units are made in the United States by Curtis Controllers. The controller runs the speed, torque, smooth braking and efficiency without noise. All contacts should be checked for obstructions and should always be kept clean. You can clean the contacts with a brush or with high pressure air.

Troubleshooting Guide

The controller has a red light trouble indicator. The number of time the light flashes indicates what the problem is.

# Flash	Problem	Probable Cause
1	Logic Card	a. try turning ignition off then on again. b. replace logic card
2	Disorder of Starting System	a. correct the order b. check accelerator switch for dirt c. replace logic card
3	Trouble found during MOS test	a. check working contactor b. check motor and wire connections c. check voltage adjuster d. replace logic card
4	Over Voltage of the accelerator	a. check wire connections b. wrong value on accelerator c. trouble with voltage tester

# Flash	Problem	Probable Cause
5	Trouble found during current test	a. check motor and wire connections b. trouble with current sensor c. trouble with logic card
6	Trouble with drive circuit of contactor	a. check contactor coil & wiring b. replace logic card
7	High Temperature	a. poor ventilation of motor
8	Contactor cannot be closed	a. check motor and wiring b. check if contacts are jammed c. trouble with voltage adjuster
9	Contactor cannot be turned off	a. contacts are dirty or stuck b. replace logic card
32	Overcharge of the batteries	a. stop driving and recharge immediately b. check water level in batteries and recharge uniformly
Always On	Two problems exist	a. wrong operation b. wrong wiring c. switch sticks d. trouble with logic card

Brake System

To do a system check, step down on the brake pedal and measure the distance between the pedal and the front wall. The minimum gap should be no less than 1.96 inches. The gaps between the brake pads are self adjusting. The parking brake should be used when the vehicle is not in motion. Depress the parking brake by stepping on the top section.

Lubrication

Check all fluids and lubricate the vehicle monthly. Lubricate more frequently during periods of high use.

Brake Fluid: 901 DOT3

Rear Axle: 90GL-5 Hypoid - 1 Liter

Grease Lubrication Points: Steering column, axle, wheel bearings, steering ball joint

Break-In Procedure

A new low speed vehicle should be driven with a minimum load for the first full charge. This will ensure that all of the systems are functioning properly and will ensure that the system does not get overloaded before the break in is completed. Typical break in periods last about one month.

Before operating your low speed vehicle for the first time, check all of the batteries are filled with fluids, that all joints are greased, and that the brake fluid is full.

The tire pressure should be 3.5kgf/cm². Avoid driving on roads that are in poor condition.

General Maintenance

Regularly grease and lubricate the rear power assembly, wheels, and steering column.

The brake system may need to be adjusted after periods of heavy use.

Check the electrical system, contacts, and wires for any obstructions, dirt or grease, and clean with a cloth, brush, or air.

Loose contacts can become hot, so keep contacts free of dirt.

Check the rated current of fuses before replacing

Disconnect the positive lead on the battery when servicing, for safety. Only use distilled water in the batteries.

Do not depress the accelerator pedal repeatedly, as this will burn out the accelerator.

Do not drive at high speeds down a hill or when turning.

All passengers should be seated and using their seat belts when the vehicle is in motion.

Please contact citEcarEV, LLC for an up to date list of service centers in your area. It is suggested you have your vehicle serviced at least one time every year.

Warranty Information

1. This limited warranty covers conversions to new vehicles, equipment furnished by citEcarEV ("the company") in or upon a passenger vehicle. Vehicle has a 3 year limited parts warranty.
2. The company warrants to original purchases that any defects in materials or workmanship, except as listed in para. 4 below, that occur within the time periods listed below ("the warranty period"), starting from the date of delivery, will be corrected by the company at its expense, in a manner described:
 - a. Manufacture Warranties –These warranties are covered by the manufacture of the component, not by citEcarEV directly. Eagle brand chargers are covered for a period of three years. Curtis Instruments brand controllers are covered for a period of two years. Trojan Batteries are covered for a period of 18 months. Full warranty disclosures for these three manufacturers are available upon request.
 - b. citEcarEV Warranty – In addition to the manufacture warranties noted above. citEcarEV will warranty the frame and all structure welds of the vehicle for a period of two years. All remaining parts not already mentioned in (a) or (b) or excluded in #4 below will be covered for a period of one year. Labor for repair is never included. The warranty included is a parts only warranty. Defective parts must be returned to citEcarEV before replacement. Longer warranties or warranties that include labor costs can be purchased for an additional price.
3. Warranty parts will be sent or given to the customer when the original purchaser notifies the company that a defect exists and the company determines, as a result of its inspection or investigation, that the defect was caused by improper material or workmanship.
4. The parts only warranty provided by citEcarEV does not cover
 - a. Any costs or charges involved in transporting a vehicle or part to or from the repair facility
 - b. Any lost revenues to customer due to the defective part(s).
 - c. Damages to any items caused by improper use, unauthorized repairs or modifications, attempts to operate any equipment beyond its rated capacities, or damage caused by lack of proper and reasonable maintenance.
 - d. Any equipment furnished by the buyer (for installation by the company).
 - e. Wear Items - tires, bulbs, fuses, bearings, brake pads, motor brushes, wiper blades, brake shoes.
 - f. Any defects for components (such as radio equipment, charger, controller, batteries, etc.) which are covered by the individual component manufacturer's warranty.
 - g. Any rental or replacement vehicle charges or costs associated with the need for warranty repair at our authorized facility
 - h. Any labor required to replace any warranty parts
 - i. Rust and Paint related issues
5. Warranty repairs listed above constitute the full extent of the company's warranty. There are no warranties which extend beyond those described herein, and the foregoing warranty is exclusive and is in lieu of all other warranties, whether written, oral, implied or statutory. In no event shall the company be liable for special or consequential damages or of the loss of use of the vehicle or loss of time or inconvenience to the buyer. Any disputes arising from this warranty are to be settled in Alachua County, Florida.

Unit Information

Model Number _____
Purchase Date _____
Controller Serial Number _____
Motor Serial Number _____
Vehicle Serial Number _____
Purchased From _____
Dealer Phone Number _____

Congratulations once again on the purchase of your brand new Low Speed Vehicle.

With proper care and maintenance, we are sure you will enjoy many years of worry-free service from your LSV.

Thank you for your purchase.

Notes

This image shows a full page of white paper with horizontal blue ruling lines. The lines are evenly spaced and run across the width of the page, providing a template for handwriting practice or general writing. There are no margins, text, or other markings on the page.